

# 3

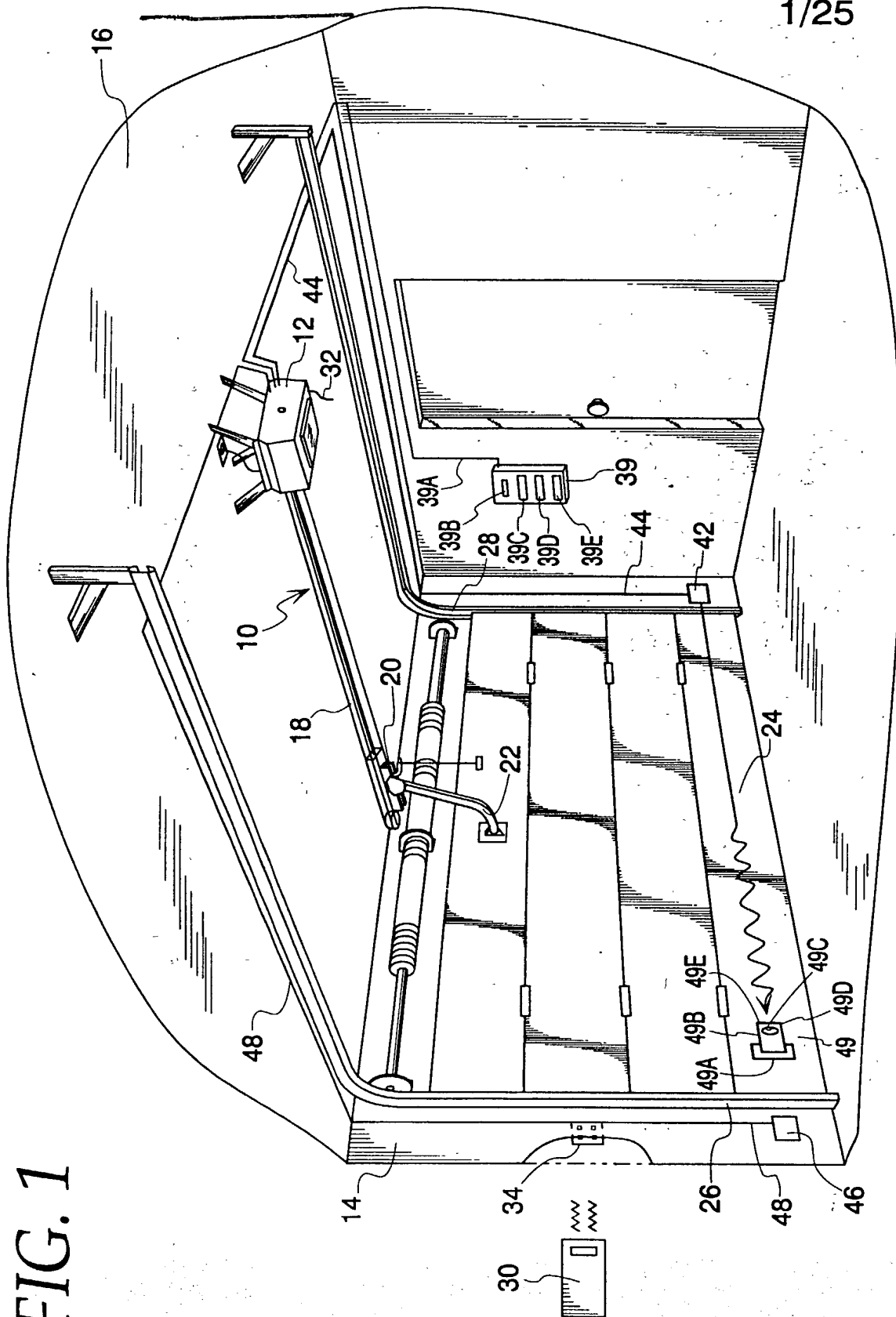
James Fitzgibbon  
 MOVABLE BARRIER... CAPABILITY  
 Sheet 1 of 25 Serial No. 10/083,905  
 Docket No. 72928/5569  
 Kenneth H. Samples (312) 577-7000

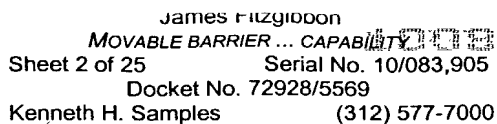
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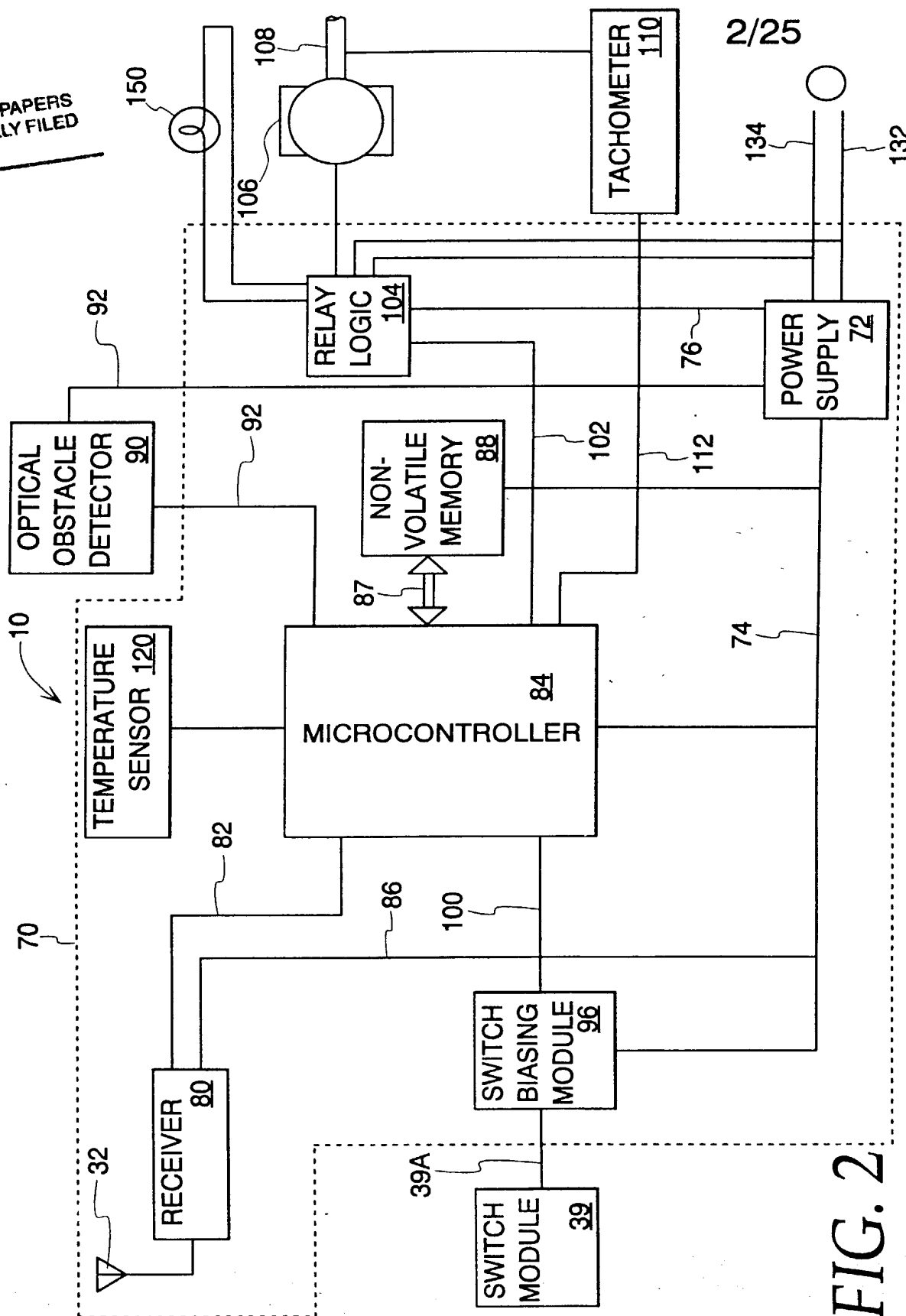
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FIG. 1





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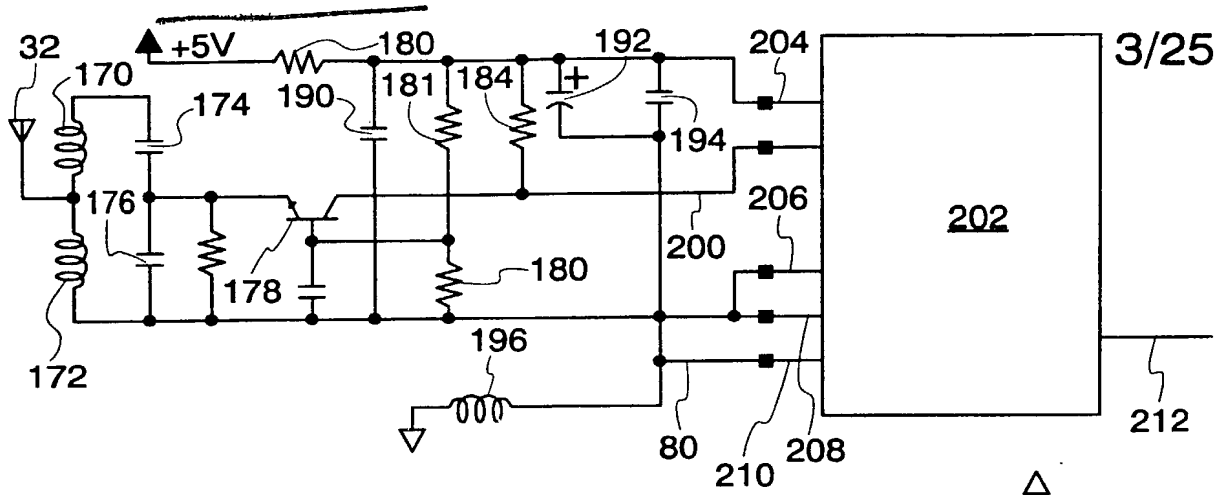


FIG. 3A

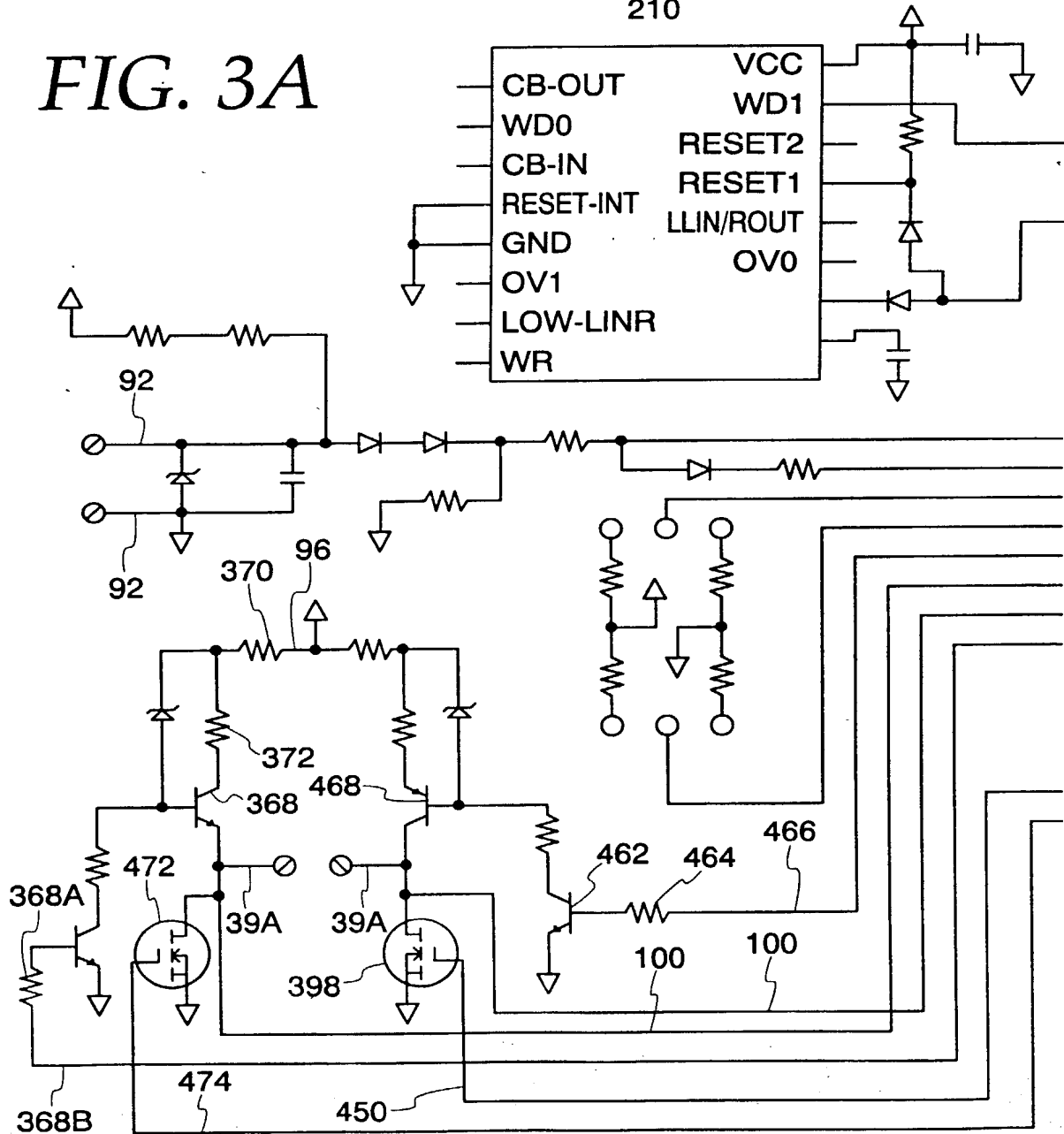
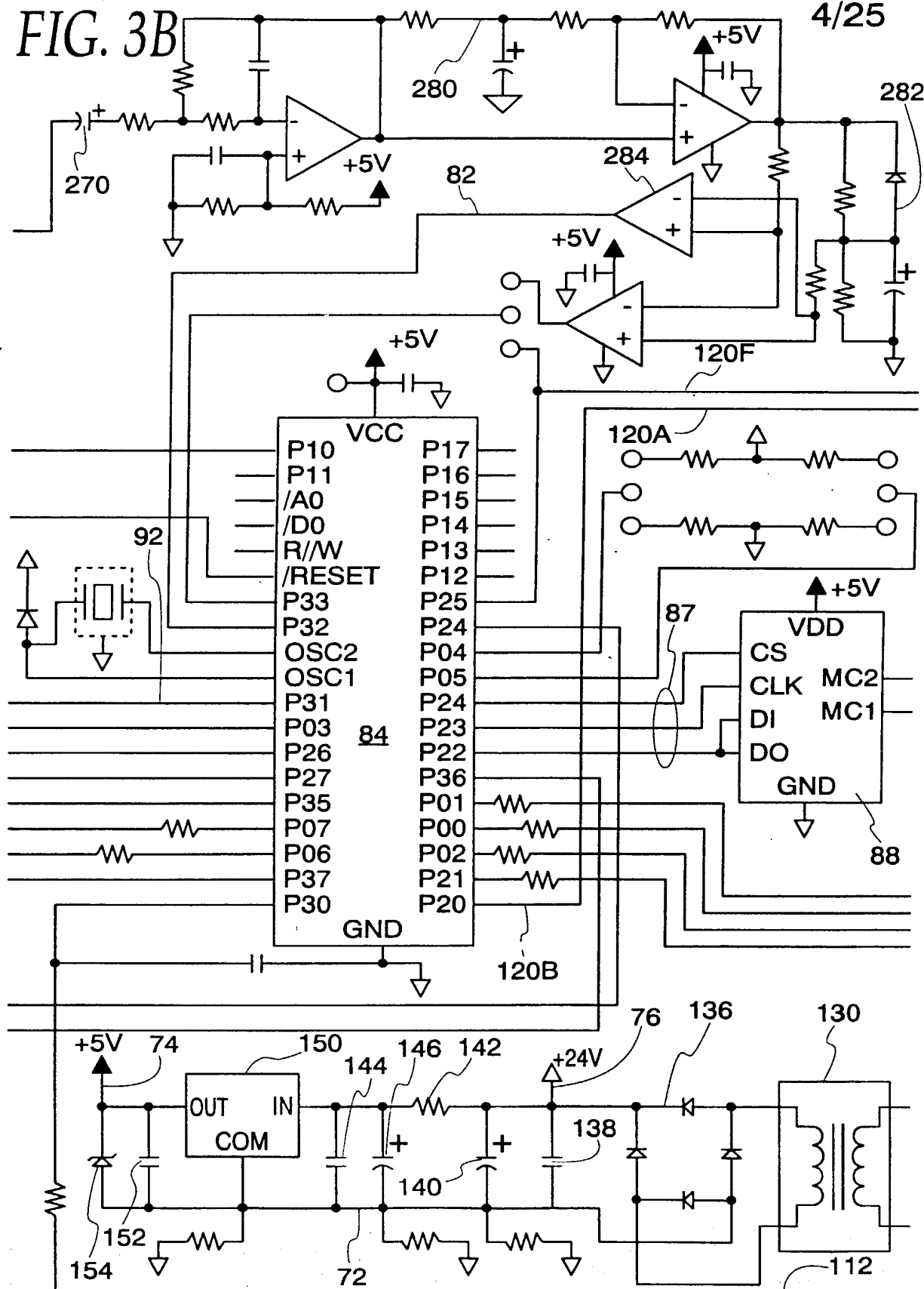




FIG. 3B

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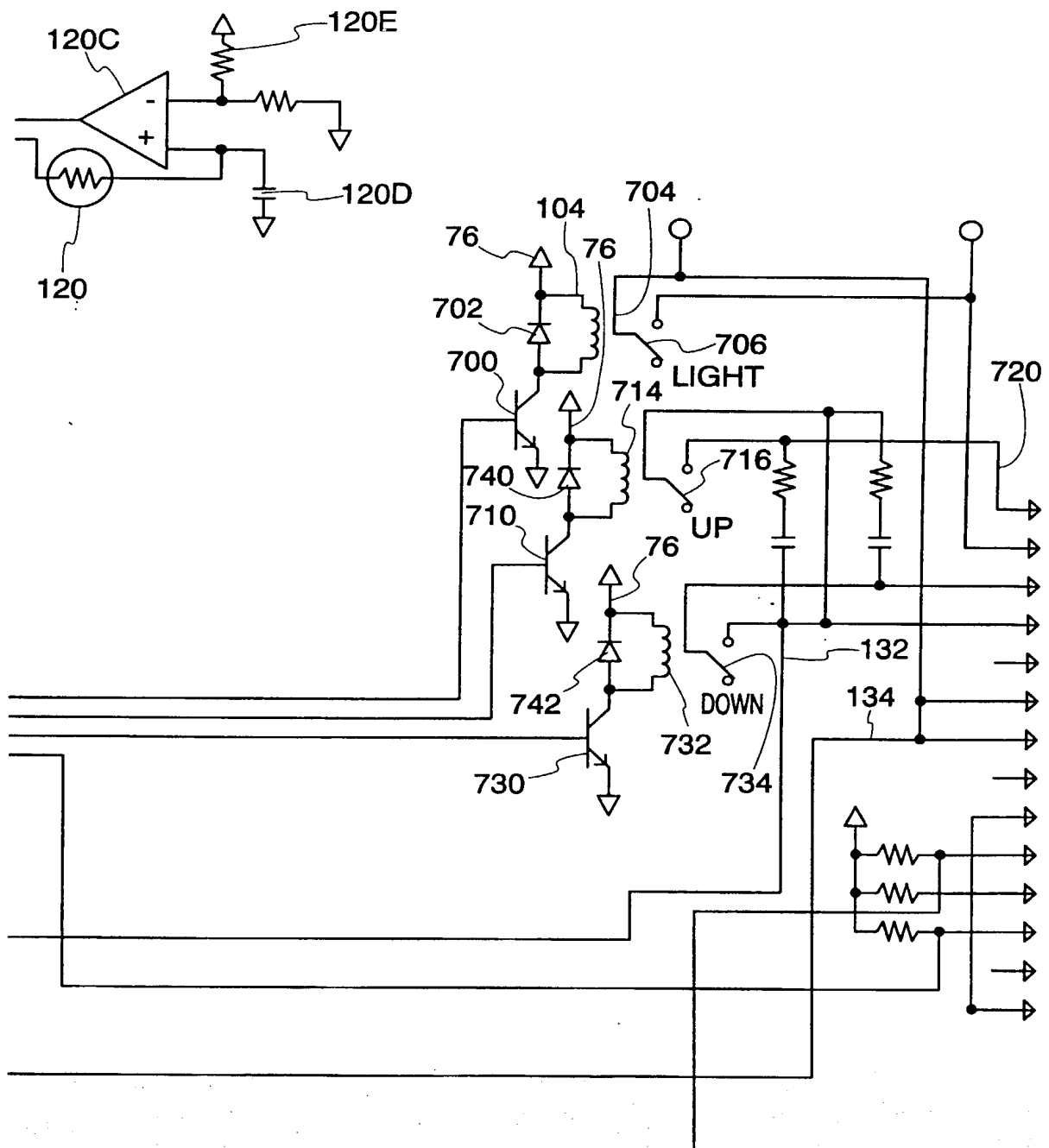
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FIG. 3A FIG. 3B FIG. 3C

FIG. 3C



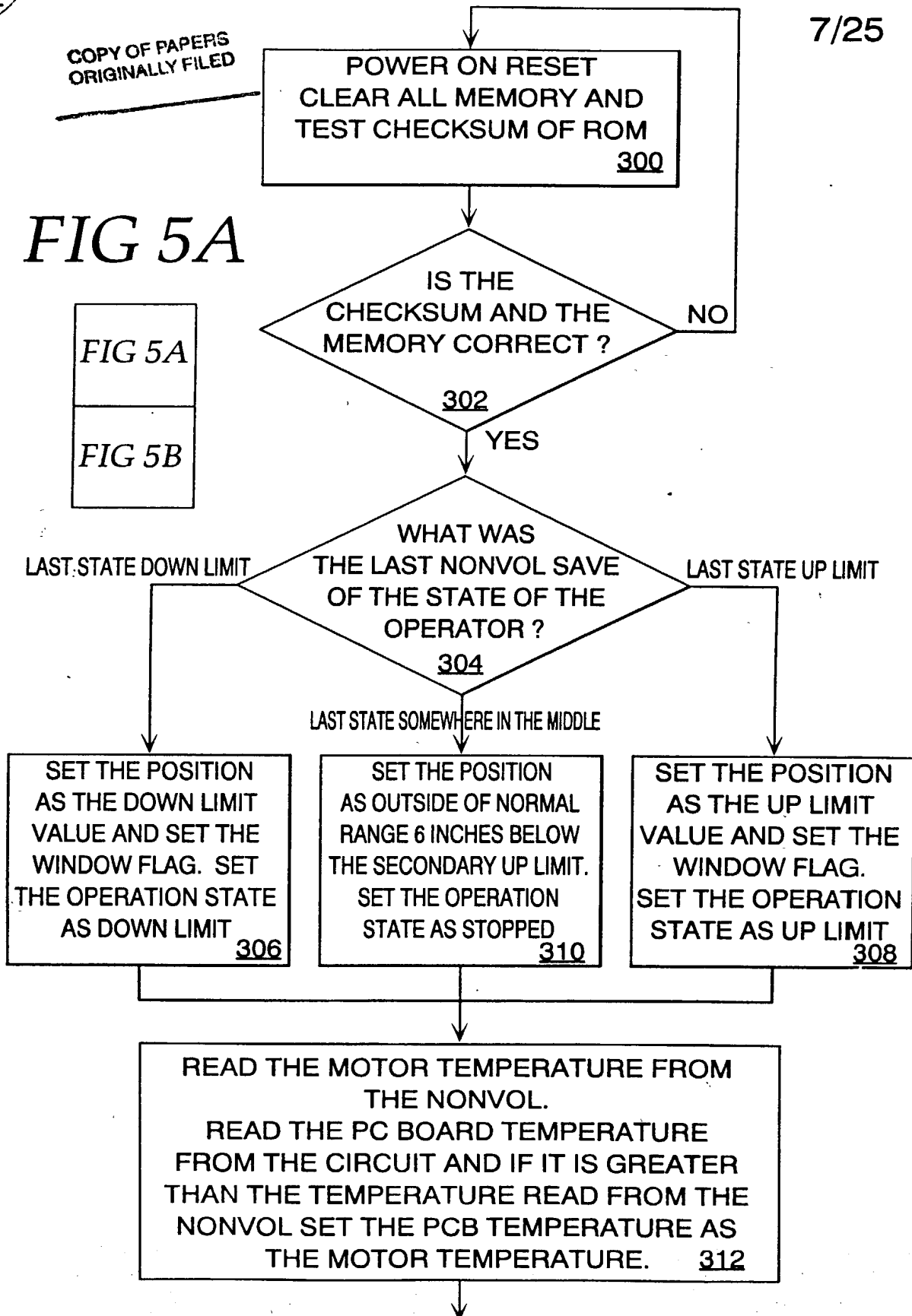




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FIG 5A





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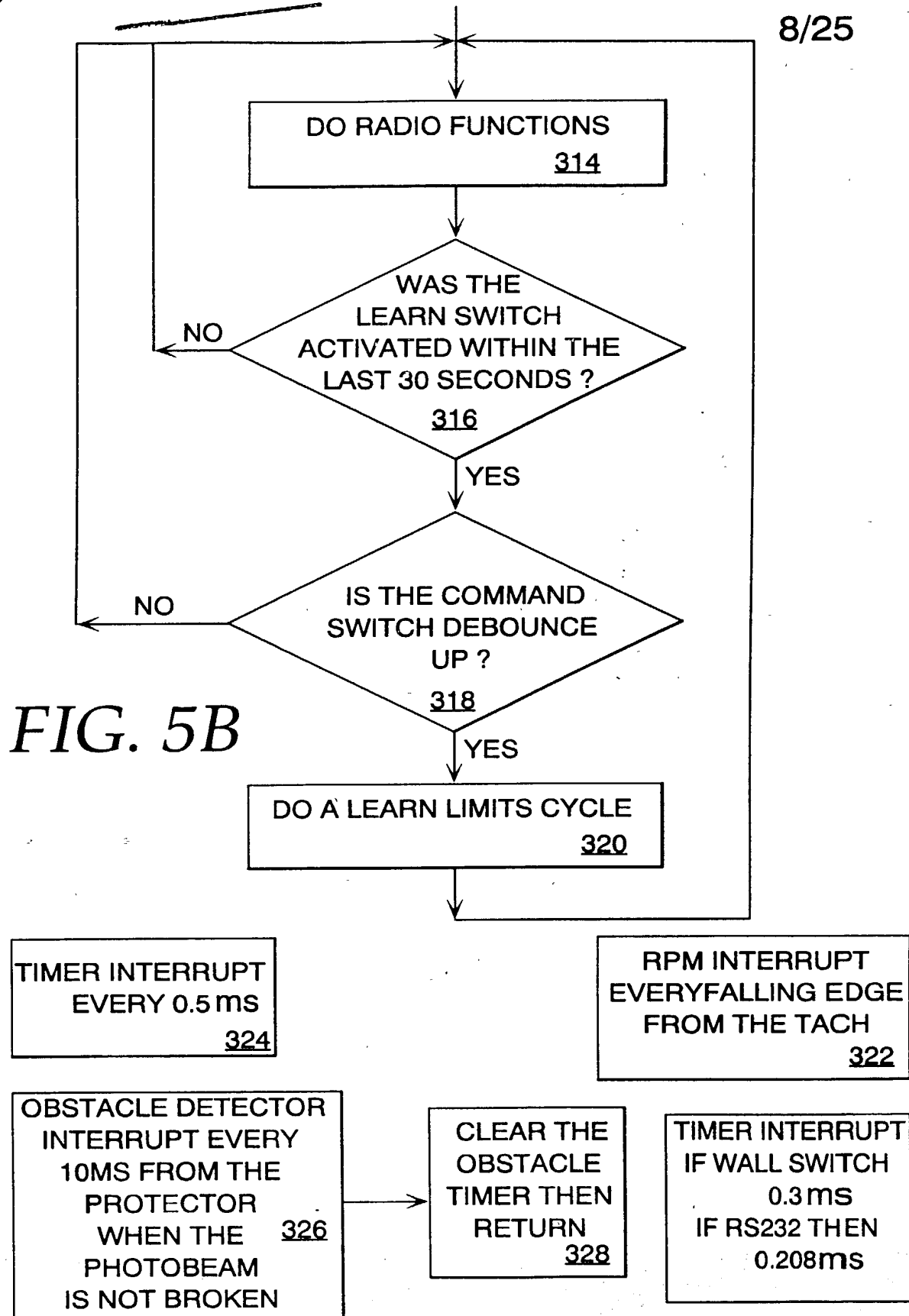






FIG. 6A  
FIG. 6B  
FIG. 6C  
FIG. 6D  
FIG. 6E  
FIG. 6F  
FIG. 6G

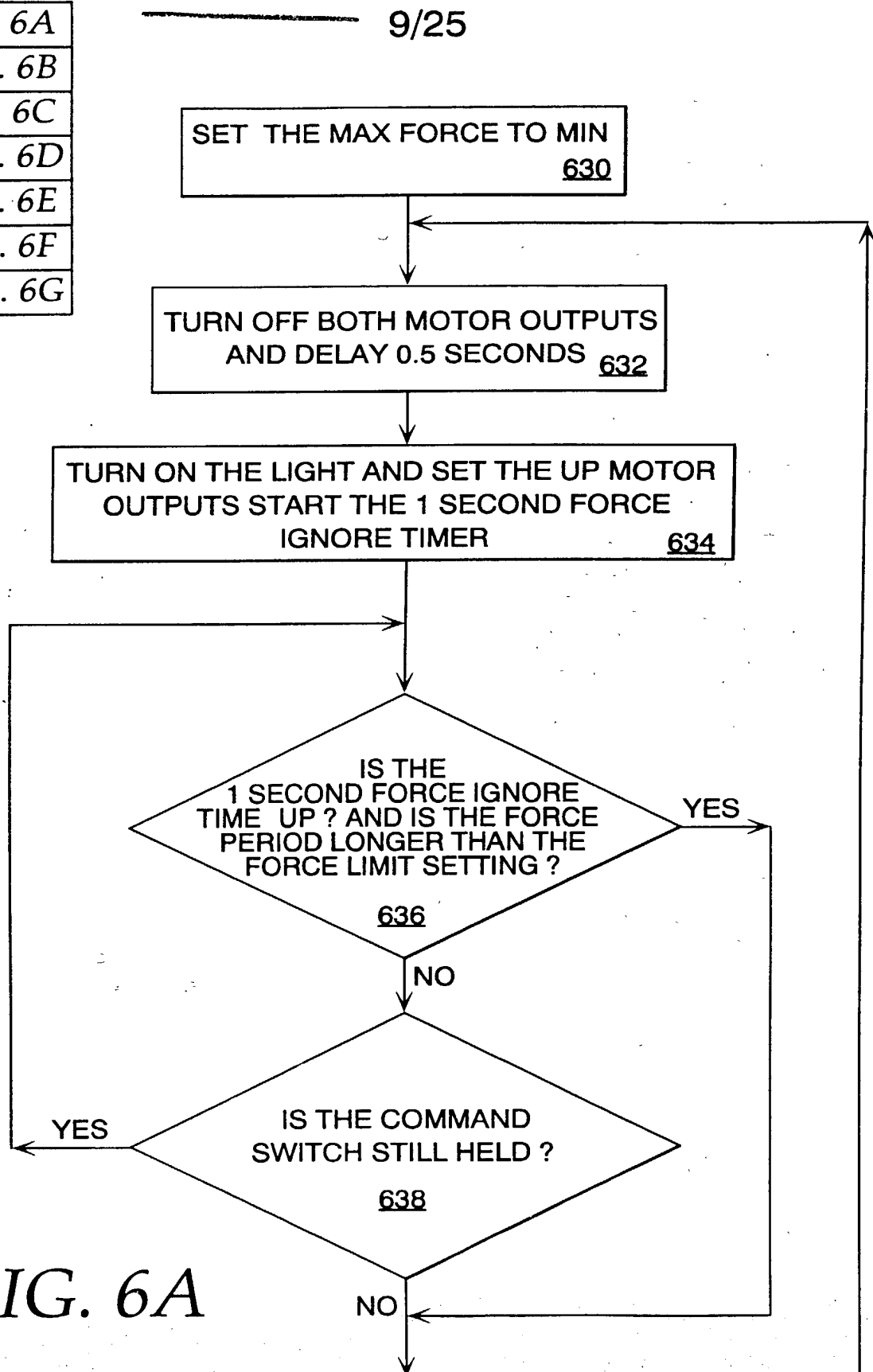


FIG. 6A



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TURN OFF BOTH MOTOR OUTPUTS AND DELAY 0.5  
SECONDS AND CLEAR THE POSITION COUNTER

640

TURN ON THE DOWN OUTPUT AND START THE 1  
SECOND FORCE IGNORE TIMER

641

IS THE COMMAND  
SWITCH SET AGAIN ?

642

YES

INCREASE  
THE FORCE  
LIMIT  
SETTING

644

NO

IS THE ONE SECOND FORCE IGNORE TIMER DONE THEN  
SAVE THE MAX FORCE PERIOD (DELAYED 32 RPM  
PULSES) AS THE DOWN FORCE

646

TAKE THE POSITION  
COMPLEMENT IT AND  
SAVE IT AS THE UP  
LIMIT THEN CLEAR  
THE POSITION  
COUNTER. SET  
PASS POINT

650

ARE WE AT  
THE PASSPOINT ?

648

YES

NO

IS THE  
1 SECOND FORCE IGNORE  
TIMER UP ? AND IS THE FORCE  
PERIOD LONGER THAN THE  
FORCE LIMIT SETTING ?

652

YES

NO

FIG. 6B

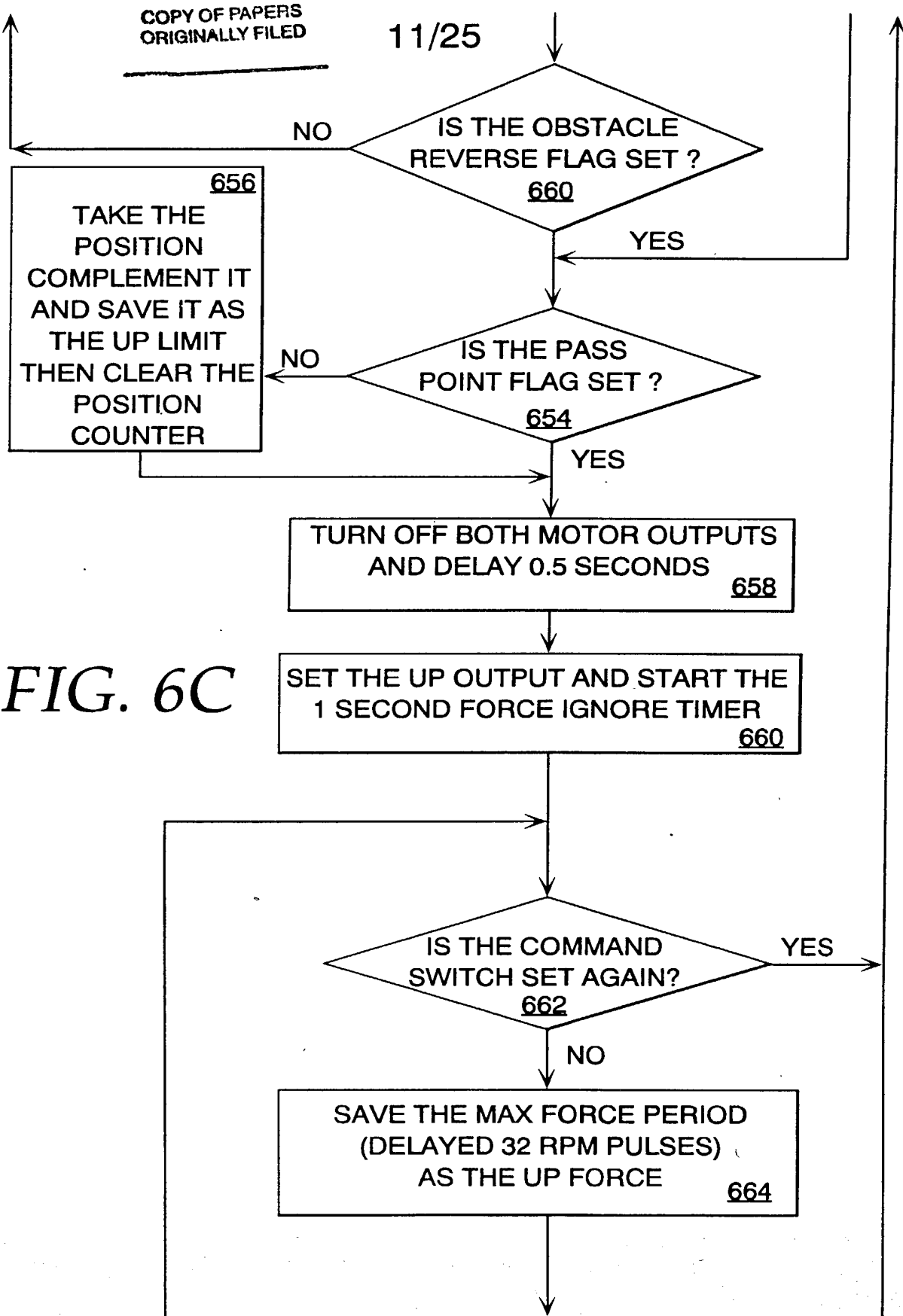


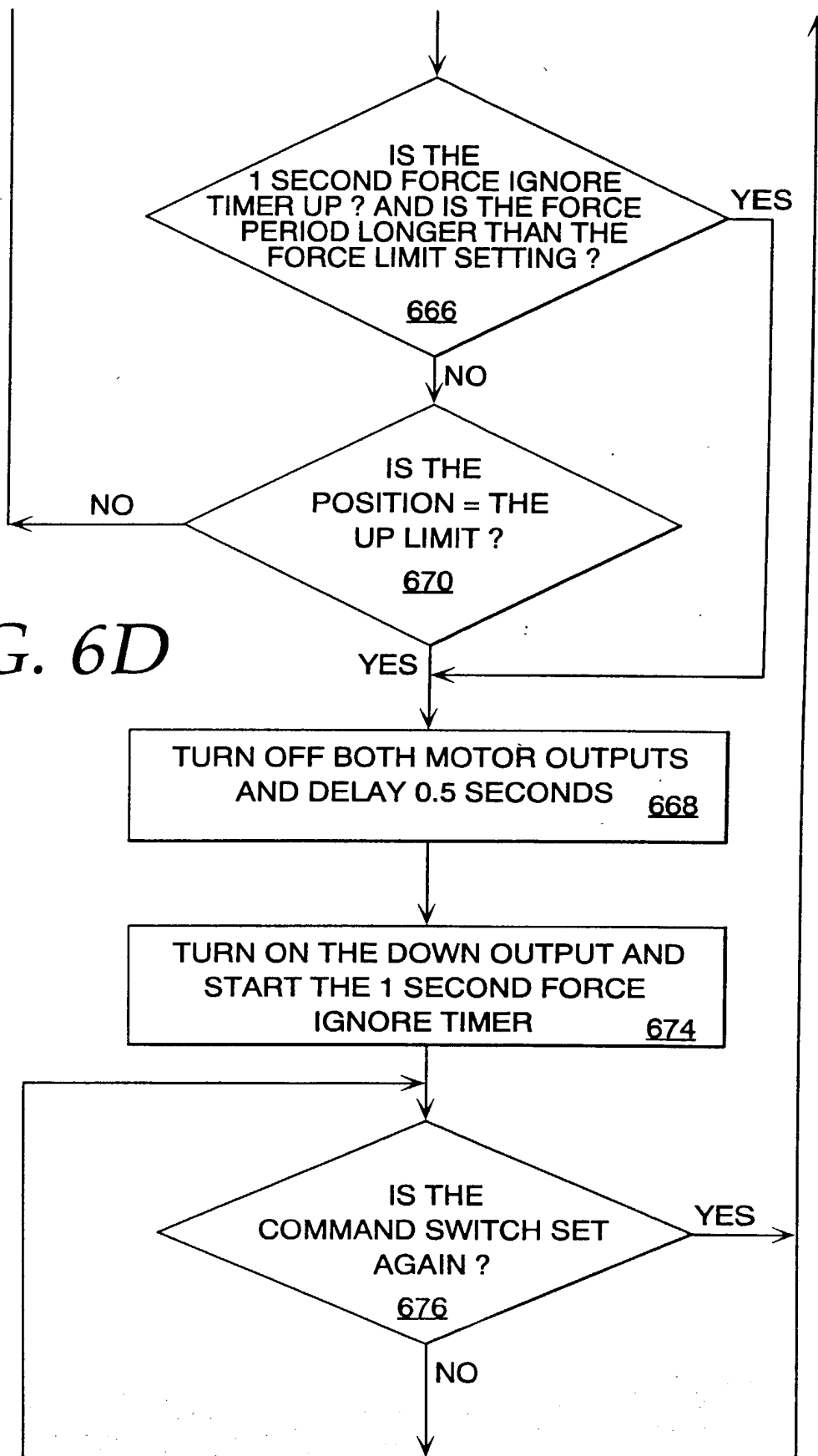
FIG. 6C



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FIG. 6D

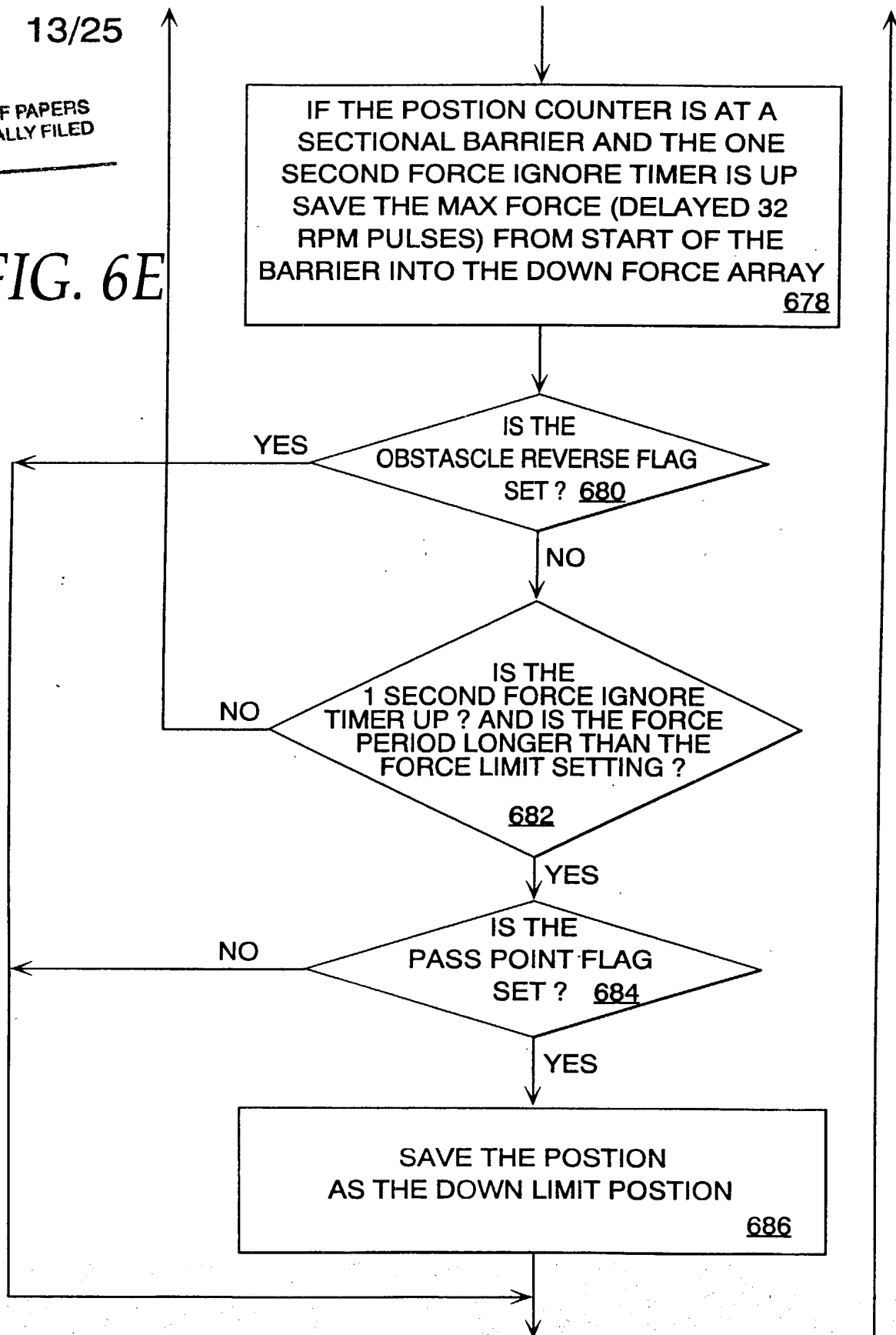




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FIG. 6E

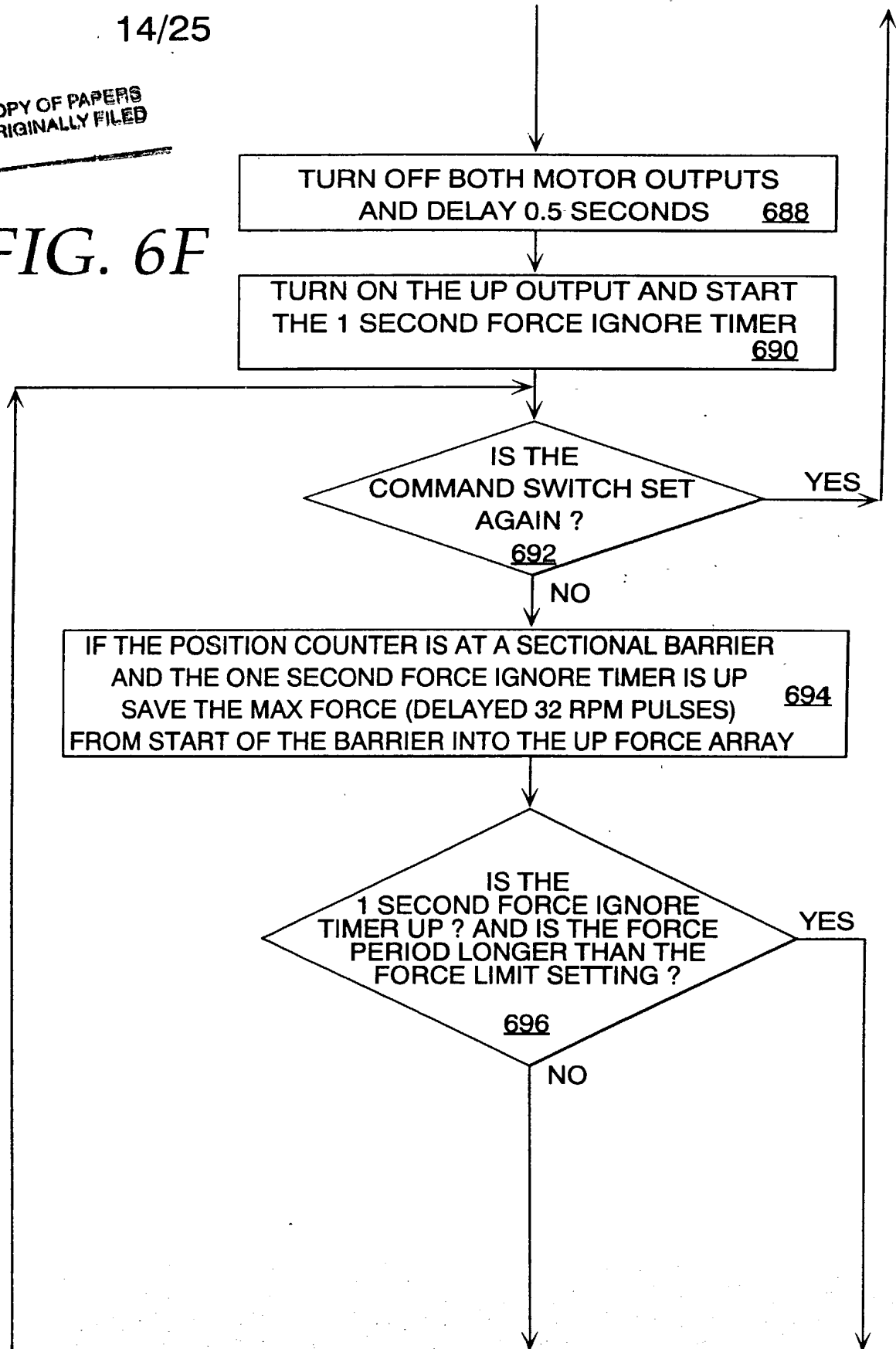




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FIG. 6F



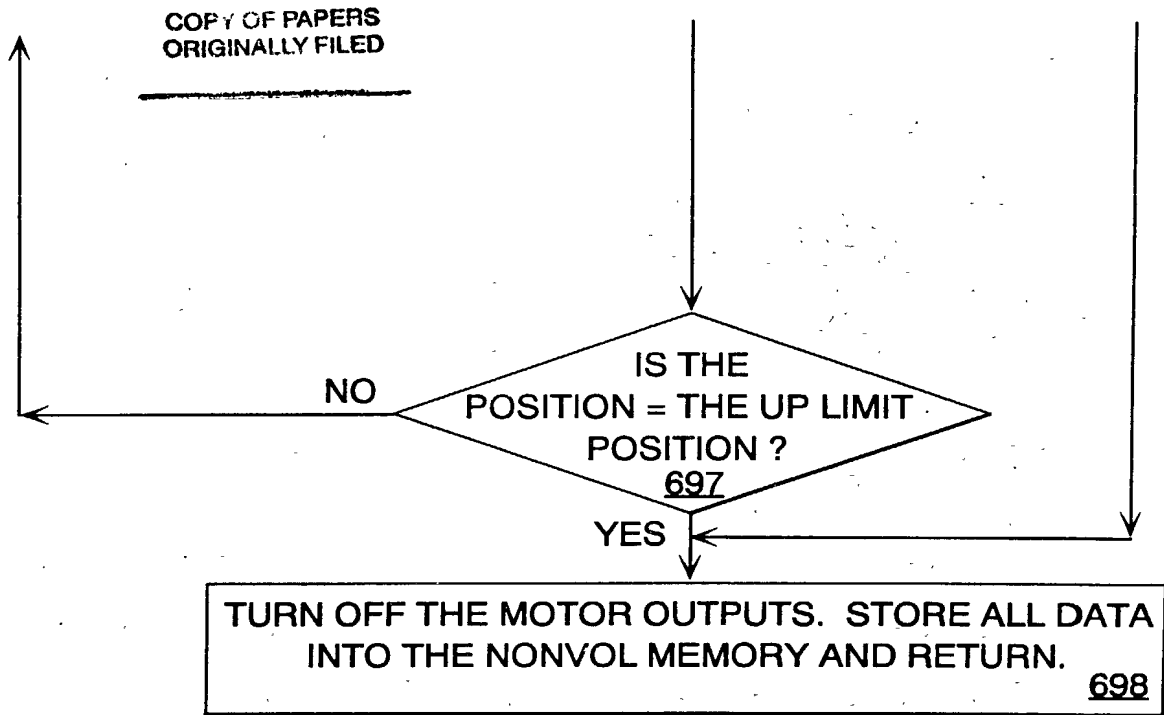


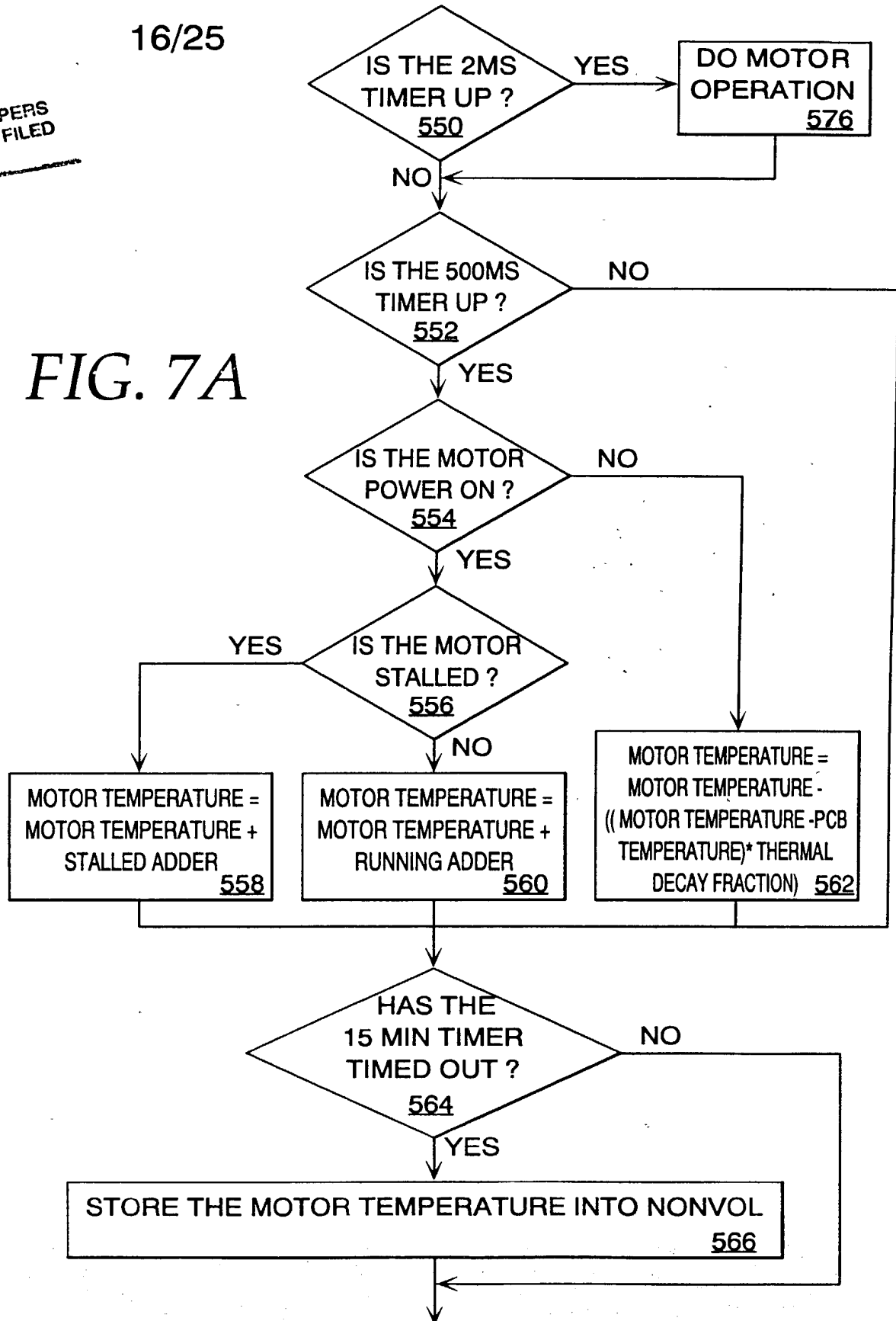
FIG. 6G



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FIG. 7A







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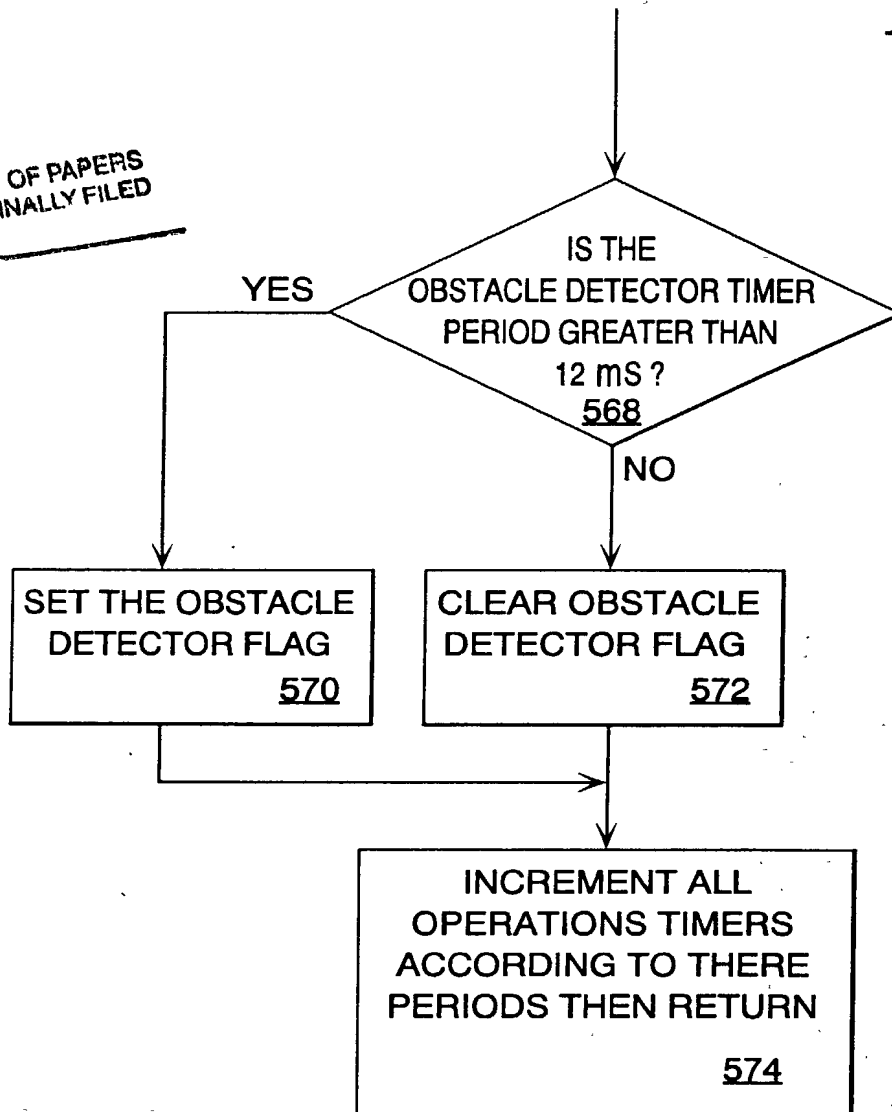


FIG. 7A

FIG. 7B

FIG. 7B

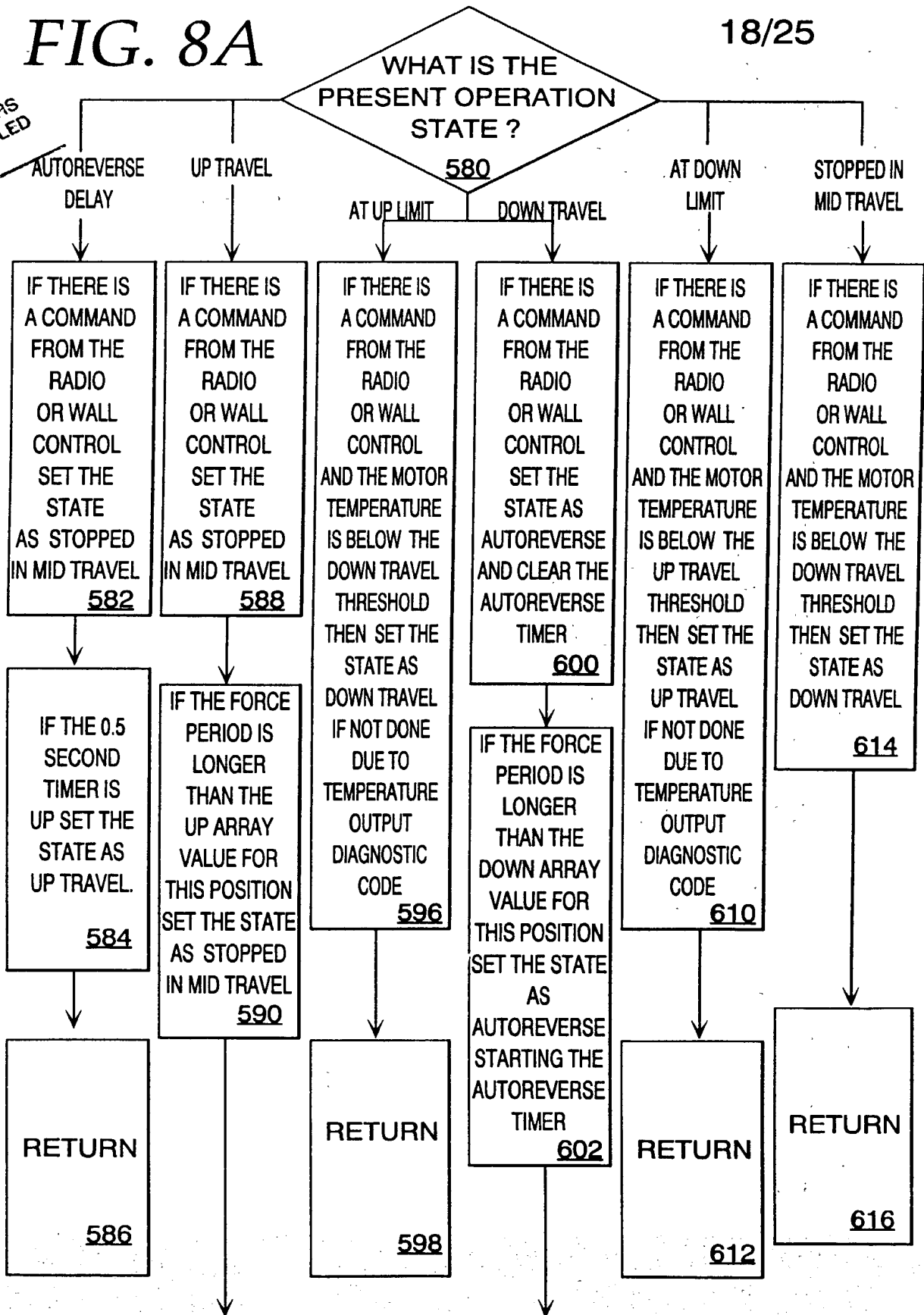


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FIG. 8A

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↓  
IF THE  
POSITION =  
UP LIMIT OR  
POSITION =  
SECONDARY  
UP LIMIT  
POSITION  
THEN SET THE  
STATE  
AS UP LIMIT  
592

↓  
RETURN  
594

↓  
IF THE  
POSITION =  
THE DOWN  
LIMIT  
POSITION AND  
THE PASS  
POINT IS SEEN  
SET THE  
STATE  
AS DOWN LIMIT  
604

↓  
IF THE  
POSITION =  
THE DOWN  
LIMIT  
POSITION AND  
THE PASS  
POINT IS NOT  
SEEN SET THE  
STATE AS  
AUTOREVERSE  
AND START  
THE  
AUTOREVERSE  
TIMER  
606

↓  
RETURN  
608

*FIG. 8B*

*FIG. 8A*

*FIG. 8B*



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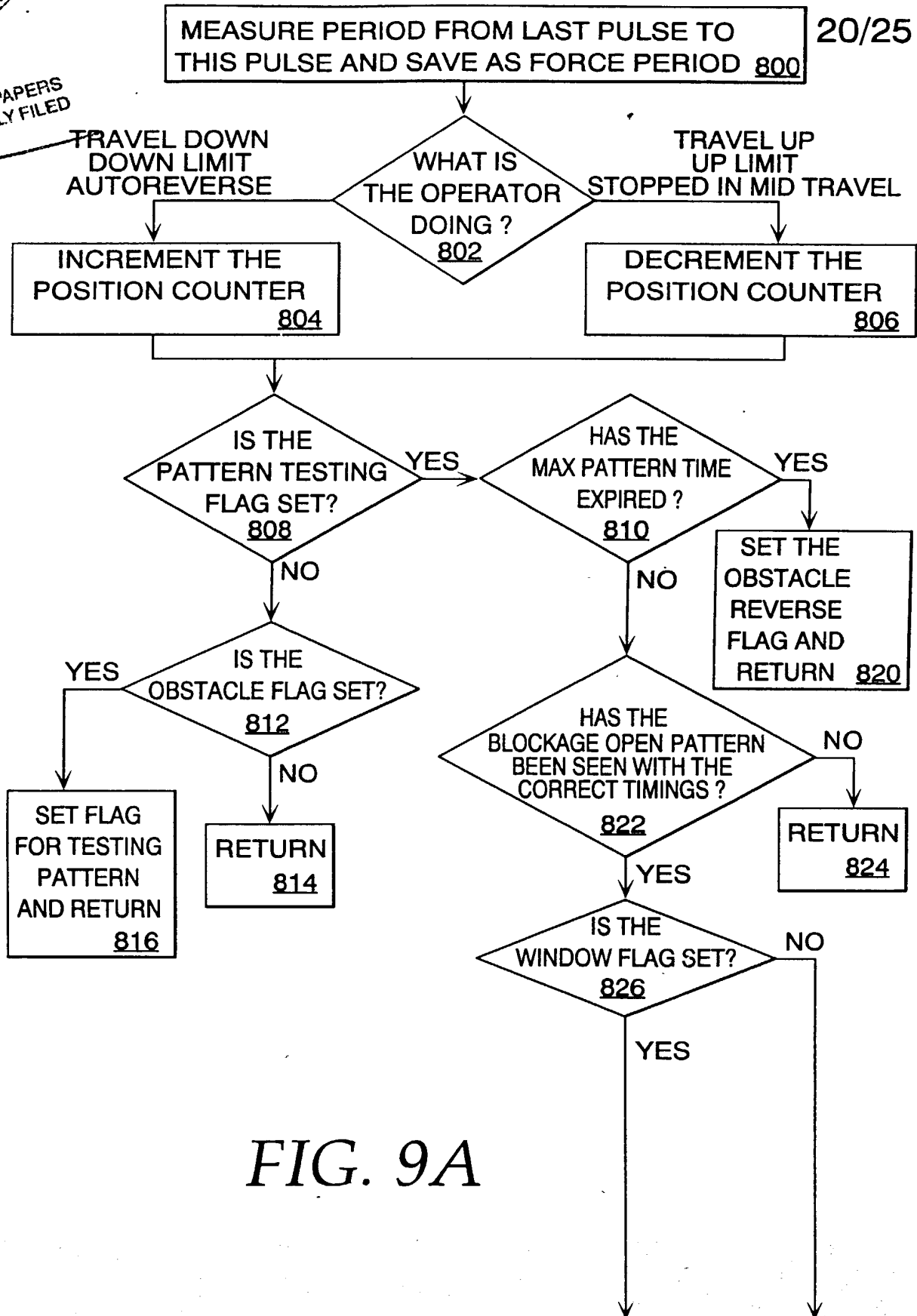


FIG. 9A



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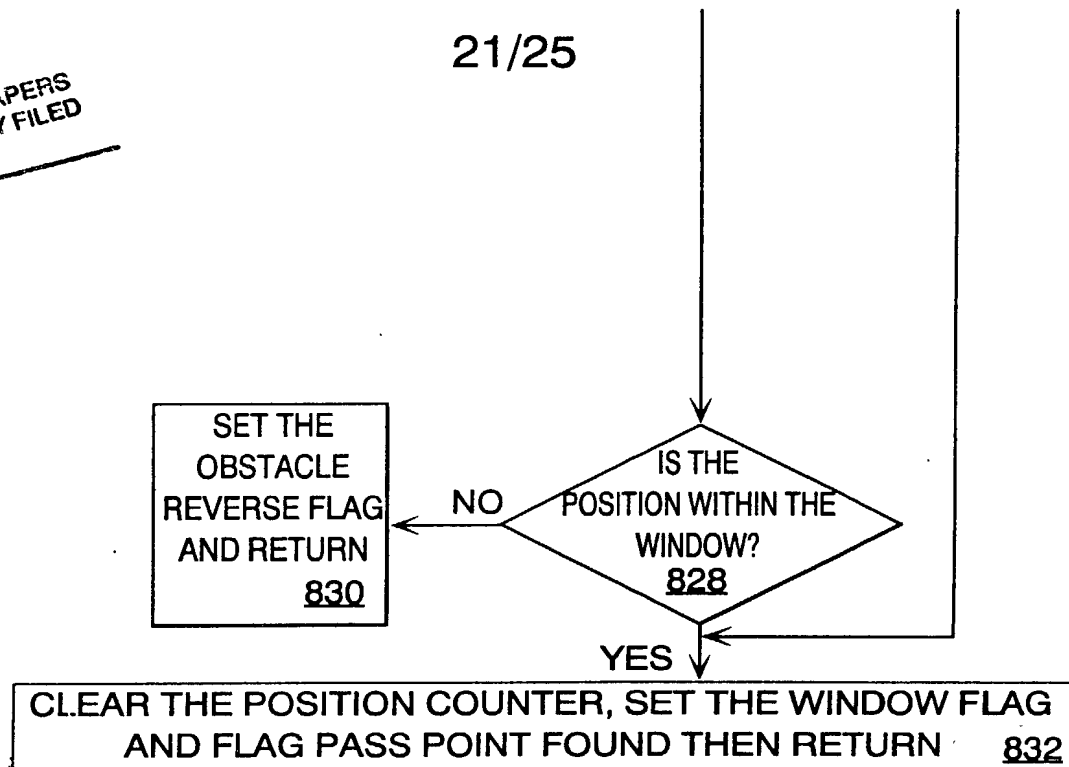


FIG. 9B

FIG. 9A

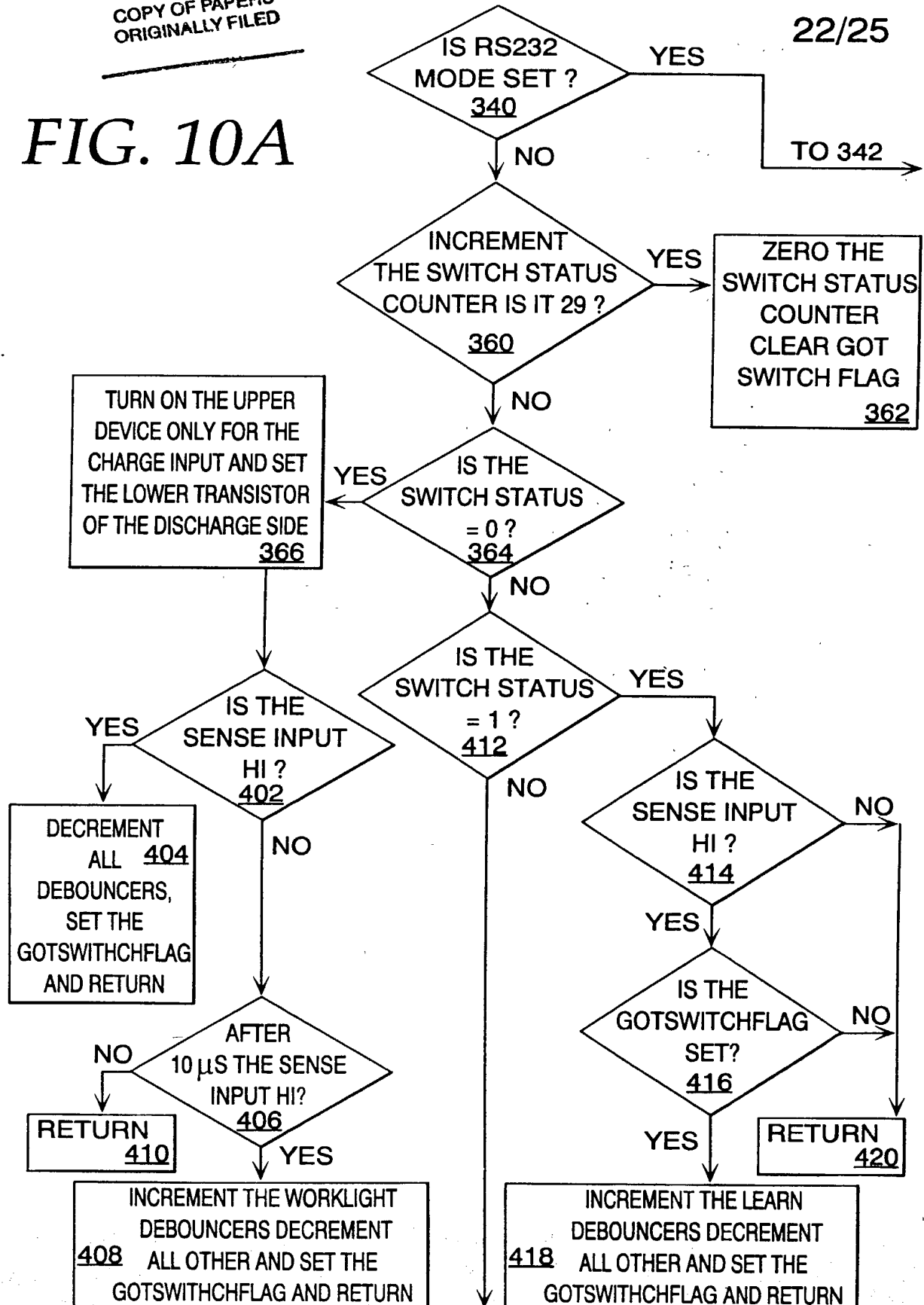
FIG. 9B



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FIG. 10A

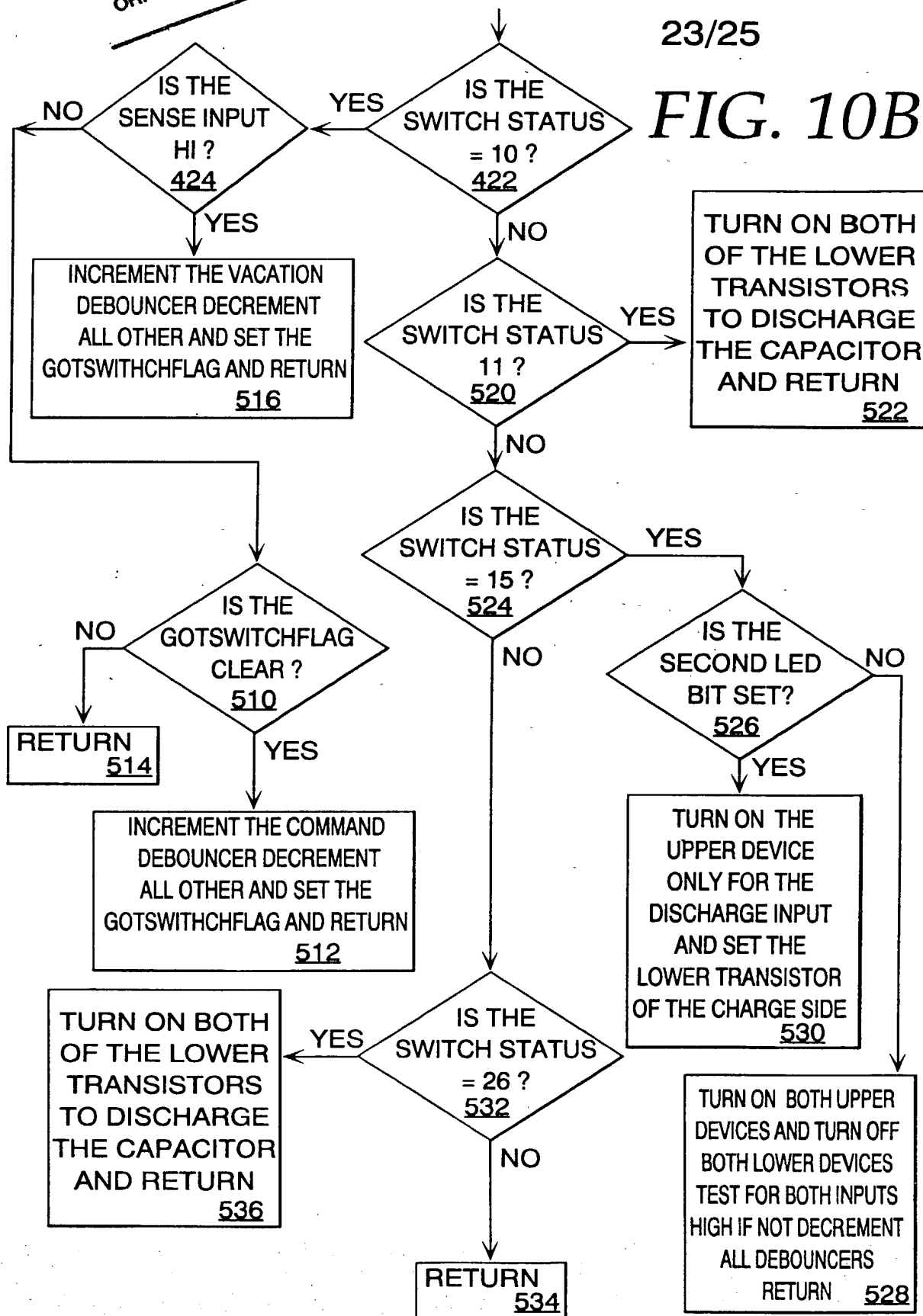




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FIG. 10B





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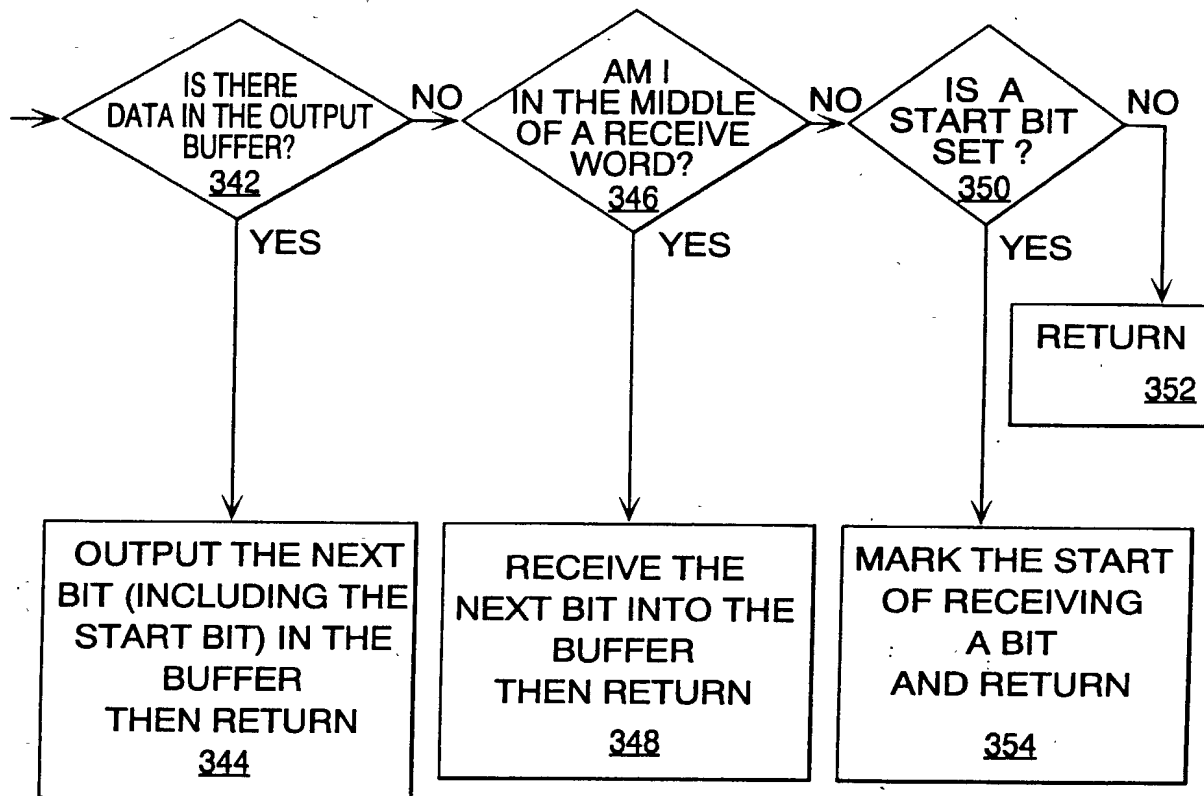
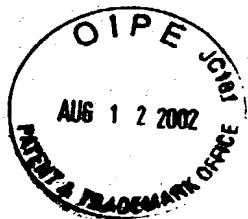


FIG. 10C

FIG. 10A	FIG. 10C
FIG. 10B	





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